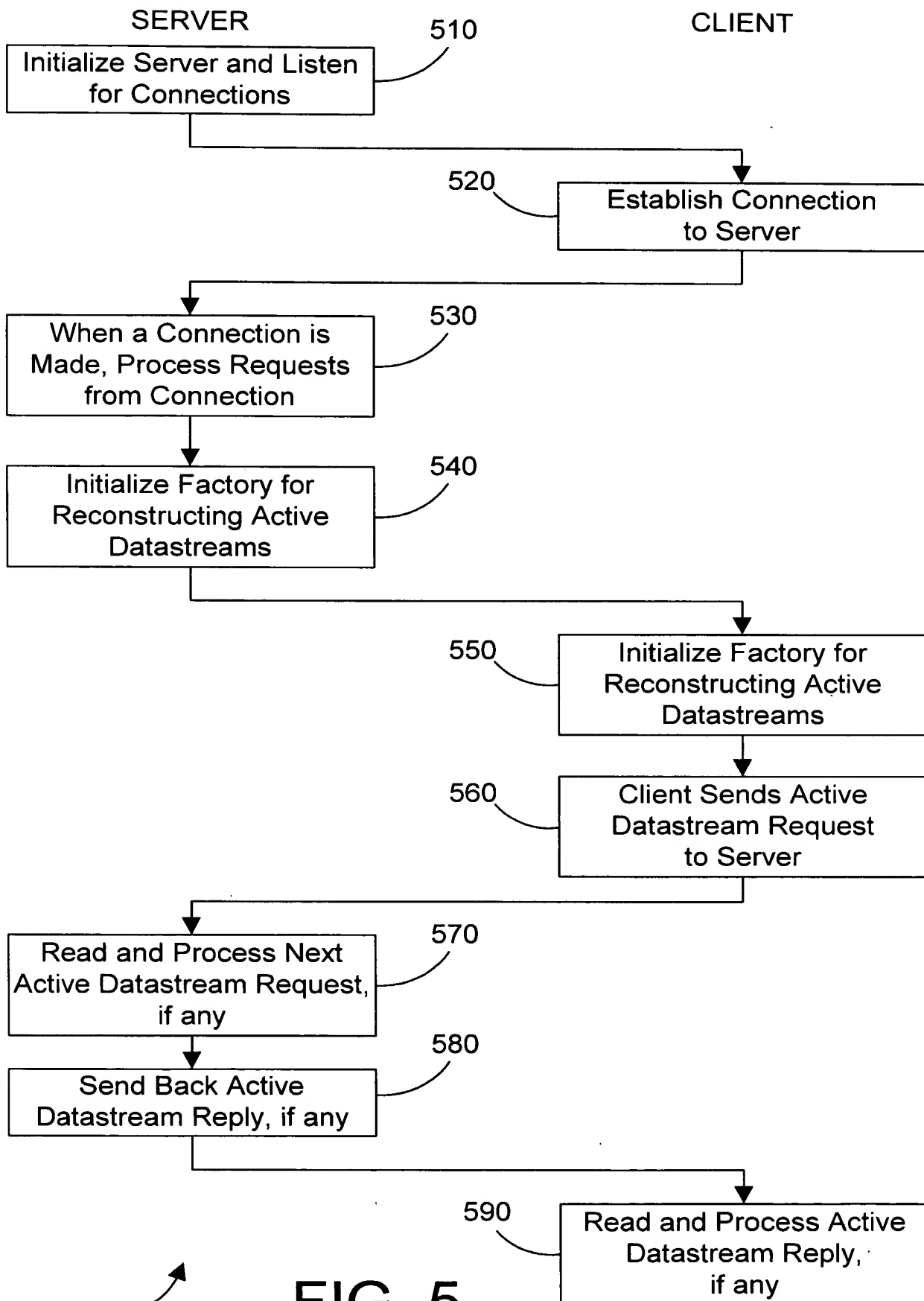


FIG. 4



500

FIG. 5

APPROVED	O.G. FIG.	
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5/6
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```

interface ActiveDataStream
{
    // Performs any preprocessing and sends the datastream to an
    // output stream (to the target)
610 — public abstract void send (OutputStream output);

    // Receives the datastream from an input stream (from the source)
    // and performs any necessary processing on the target. This can
    // optionally return an active reply datastream object.
620 — public abstract ActiveDataStream receive (InputStream input);
}

```

FIG. 6

```

interface ActiveDataStreamFactory
{
710 — public abstract ActiveDataStream
720 — getNextDataStream(InputStream input);
}

```

FIG. 7

```

// Sample Server: 510
ServerSocket serverSocket = new ServerSocket (port); — 805
while (true) {
530 { Socket socket = serverSocket.accept(); — 810 830
      InputStream input = new BufferedInputStream (socket.getInputStream()); — 820
      OutputStream output = new BufferedOutputStream (socket.getOutputStream());
540 — ActiveDataStreamFactory factory = new SomeActiveDataStreamFactory(); — 835

      while (true) {
570 { ActiveDataStream request = factory.getNextDataStream(input); — 840
        if (request == null) — 850
            break; — 860
580 { ActiveDataStream reply = request.receive (input); — 870
        if (reply != null) — 880
            reply.send (output); — 890
        }
      }
    }
}

```

FIG. 8

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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```
// Sample Client:
}
520 { Socket socket = new Socket (ServerName, serverPort); - 910          920
      OutputStream output = new BufferedOutputStream (socket_.getOutputStream());
      InputStream input = new BufferedInputStream (socket_.getInputStream()); - 930
550 — ActiveDataStreamFactory factory = new SomeActiveDataStreamFactory(); - 940
560 { ActiveDataStream request = new SomeRequest(); - 950
      request.send (output); - 960
590 { ActiveDataStream reply = factory.getNextDatastream (input); - 970
      if (reply != null) - 980
          reply.send (output); - 990
      }
}
```

FIG. 9